

## **ABSTRACT**

[0085] A ray tracing kernel calibration procedure for the film simulation mode of digitized tomosynthesis in which the coordinate of the source position with respect to an energy source, e.g., x-ray radiation, is determined. Shadow images of registration markers are used to aid in computing the azimuth; computing the elevation angle; and using the elevation angle and azimuth to compute the coordinate of source position with respect to the sensor.